

PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE INSTALLATION OF A TEMPORARY TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 355 AND WALSER DRIVE IN FREDERICK COUNTY, MARYLAND. MD 355 IS ASSUMED TO RUN IN A NORTH/SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION WILL OPERATE IN A NEMA THREE-PHASE, PRE-TIMED MODE WITH THE MD 355 APPROACHES OPERATING CONCURRENTLY AND THE WALSER DRIVE APPROACH OPERATING ALONE.

A HARDWIRE INTERCONNECT WILL BE PROVIDED TO THE INTERSECTION OF MD 355 AND W.B. 1-70 RAMPS.

CONTROLLER REQUIREMENTS

INSTALL A FULL-TRAFFIC-ACTUATED, EIGHT-PHASE CONTROLLER WITH SYSTEM PACKAGE HOUSED IN A NEMA SIZE "5" POLE MOUNTED CABINET.

MAINTENANCE OF TRAFFIC

THE FOLLOWING TRAFFIC CONTROL STANDARDS SHALL BE REFERENCED FOR THE PROJECT.

STANDARD NO. MD-104.00 - 104.00-12 STANDARD NO. MD-104.35-01 (LANE SHIFT)
STANDARD NO. MD-104.31-01 (FLAGGING OPERATION) STANDARD NO. MD-104.33-02 (SHOULDER WORK)
STANDARD NO. MD-104.43-01 (SHOULDER WORK) STANDARD NO. MD-104.32-01 (INTERSECTION FLAGGING OPERATION)
STANDARD NO. MD-104.37-01 (LEFT-LANE CLOSURE)
STANDARD NO. MD-104.38-01 (RIGHT-LANE CLOSURE)

PROJECT CONTACTS

THE CONTACT PERSONS FOR SHA ARE AS FOLLOWS:

MR. ROBERT FISHER
DISTRICT ENGINEER
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MR. JOHN CONCANNON
ASSISTANT DISTRICT ENGINEER - TRAFFIC
PHONE: (301) 624-8141

MR. LEON KERNS
ACTING ASSISTANT DISTRICT ENGINEER - MAINTENANCE
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MR. JOHN WRIGHT
DISTRICT UTILITIES ENGINEER
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MR. RICHARD L. DAFF, SR.
CHIEF, TRAFFIC OPERATIONS DIVISION
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EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY SHA

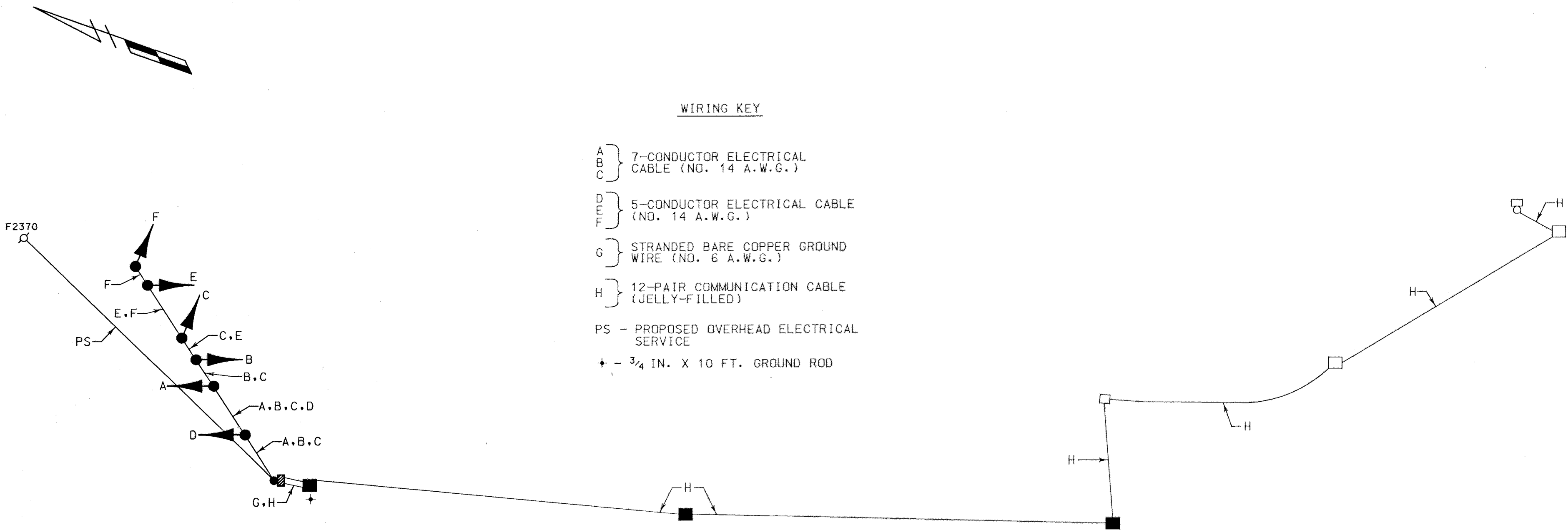
ITEM NO.	QUANTITY	DESCRIPTION
9014	6 EACH	12 IN., ONE-WAY, THREE-SECTION (R.Y.G.) TRAFFIC SIGNAL HEAD - MAST ARM MOUNT.
9085	1 EACH	EIGHT-PHASE, FULL-TRAFFIC-ACTUATED CONTROLLER WITH SYSTEM PACKAGE HOUSED IN A NEMA SIZE "5" POLE MOUNTED CABINET.
9089	43 S.F.	SHEET ALUMINUM SIGNS TO CONSIST OF : - 1 EACH D-3(1) SIGN "WALSER DR" (VARIABLE X 16 IN.) DUAL FACED - MAST ARM MOUNT - 2 EACH W3-3 SIGN (36 IN. X 36 IN.) WITH "NEW" PANEL (30 IN. X 30 IN.) AND FLAGS - GROUND MOUNT.
9000	1 EACH	23 FT. STEEL POLE WITH 64 FT. MAST ARM

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EACH	MAINTENANCE OF TRAFFIC PER ASSIGNMENT
2001	1 EACH	TEST PIT EXCAVATION
5001	200 L.F.	5 IN. YELLOW HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS
5004	90 L.F.	24 IN. WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS
5007	100 L.F.	REMOVE EXISTING PAVEMENT MARKINGS - ANY WIDTH
8001	5 C.Y.	FURNISH AND INSTALL CONCRETE FOR SIGNAL FOUNDATION
8011	6 EACH	INSTALL SIGNAL HEAD (ANY TYPE)
8019	1 EACH	INSTALL CONTROLLER AND CABINET - POLE MOUNT
8027	200 L.F.	FURNISH AND INSTALL 3 IN. SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
8028	50 L.F.	FURNISH AND INSTALL 3 IN. SCHEDULE 80 RIGID PVC CONDUIT - SLOTTED
8029	100 L.F.	FURNISH AND INSTALL 3 IN. SCHEDULE 80 RIGID PVC CONDUIT - BORED
8033	3 EACH	FURNISH AND INSTALL ELECTRICAL HANDHOLE
8034	1 EACH	FURNISH AND INSTALL GROUND ROD - 3/4 IN. DIAMETER X 10 FT. LENGTH
8039	750 L.F.	FURNISH AND INSTALL 12 PAIR COMMUNICATION CABLE, JELLY-FILLED (UNDERGROUND)
8044	90 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 A.W.G.)
8045	225 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.)
8048	30 L.F.	FURNISH AND INSTALL NO. 6 A.W.G. STRANDED BARE COPPER GROUND WIRE
8049	45 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE 1-CONDUCTOR NO. 4 A.W.G. - THHN/THWN
8051	40 L.F.	FURNISH AND INSTALL WOOD SIGN SUPPORTS 4 IN. X 6 IN.
8052	32 S.F.	INSTALL GROUND MOUNTED SIGN
8053	11 S.F.	INSTALL OVERHEAD SIGN
8060	1 EACH	REMOVE AND DISPOSE OF EXISTING MATERIAL AND EQUIPMENT PER ASSIGNMENT
8066	1 EACH	FURNISH AND INSTALL CONTROL AND DISTRIBUTION EQUIPMENT (120/240V, 1 PHASE 3 WIRE SYST)
8074	1 EACH	INSTALL STEEL POLE AND SINGLE MAST ARM (ANY SIZE)

WIRING DIAGRAM



PHASE CHART

	1	2	3	4	5	6	
	(R)	(R)	(R)	(R)	(R)	(R)	
	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)	
	(G)	(G)	(G)	(G)	(G)	(G)	
PHASE 2 + 6	G	G	G	G	R	R	←
2 + 6 CHANGE	Y	Y	Y	Y	R	R	→
PHASE 4	R	R	R	R	G	G	←
4 CHANGE	R	R	R	R	Y	Y	→
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	←

WR&A

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(410) 235-3450

REVISIONS

APPROVALS

ASST. TRAFFIC ENGINEERING DESIGN DIVISION
ASST. DISTRICT ENGINEER, TRAFFIC
CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION
DIRECTOR, TRAFFIC & SAFETY



MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
GENERAL INFORMATION SHEET
MD 355 AND WALSER DRIVE

DRAWN BY: S.BLOSS	F.A.P. NO.	TS NO. 3929A	SHEET NO. 2 OF 2
CHECKED BY: N.LEARY	S.H.A. NO.	T.I.M.S. NO. D496	
SCALE: NONE	COUNTY: FREDERICK	LOG MILE:	
DATE: 8-12-99			